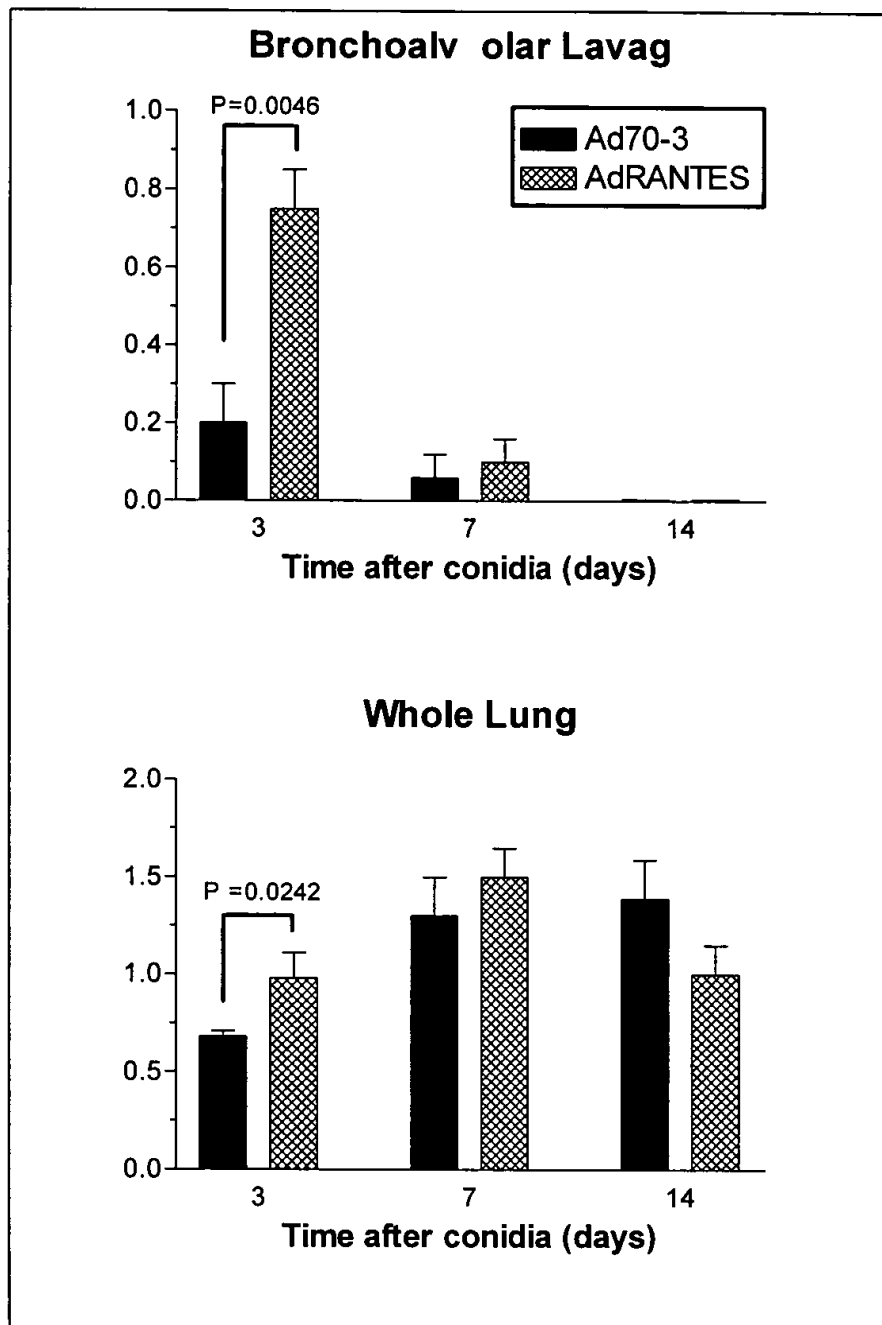
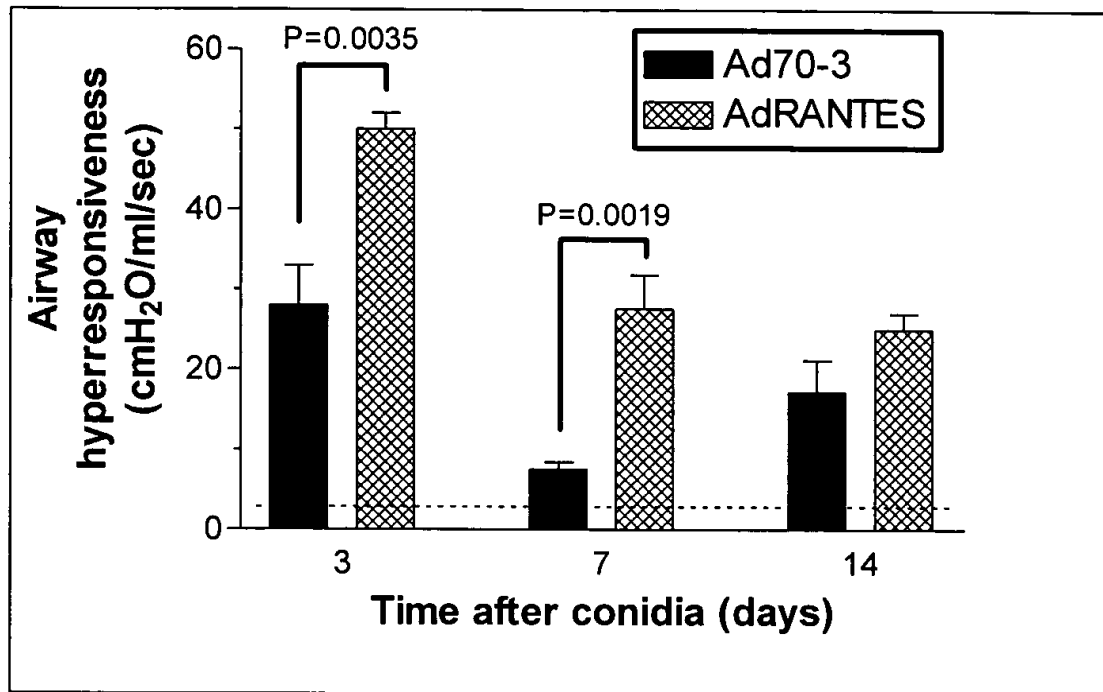


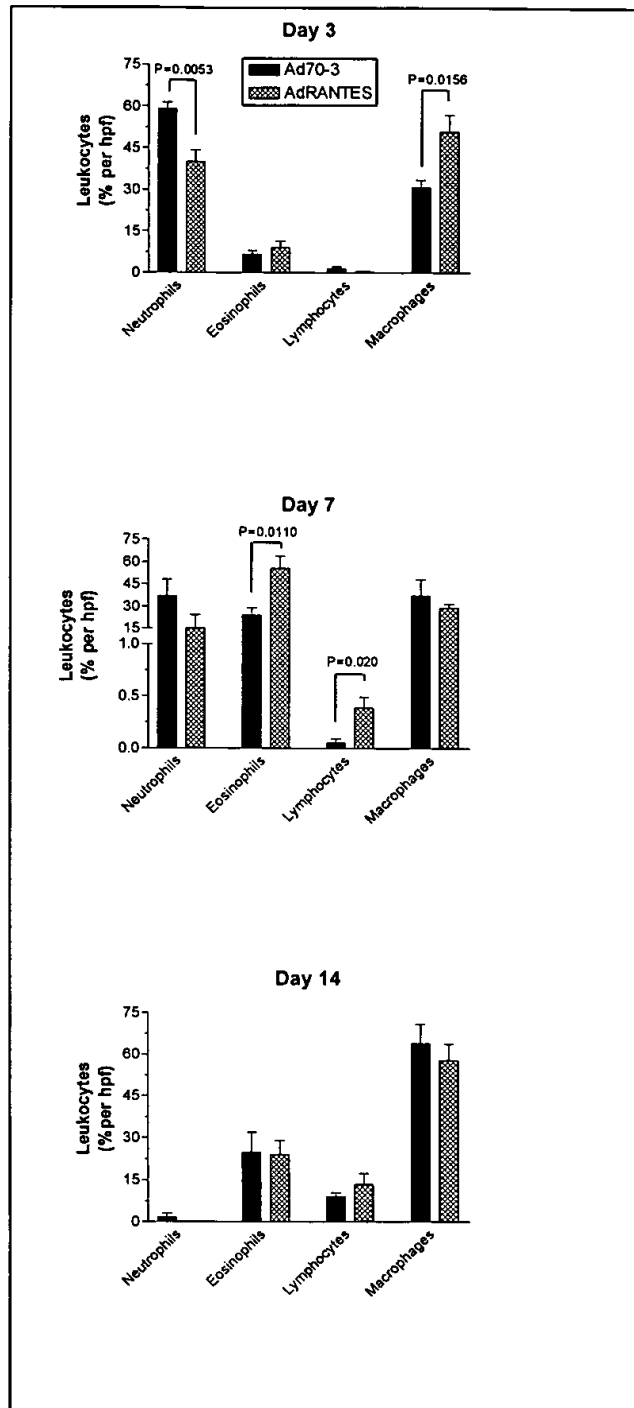
**Figure 1**



**Figure 2**



**Figure 3**



**Figure 4**

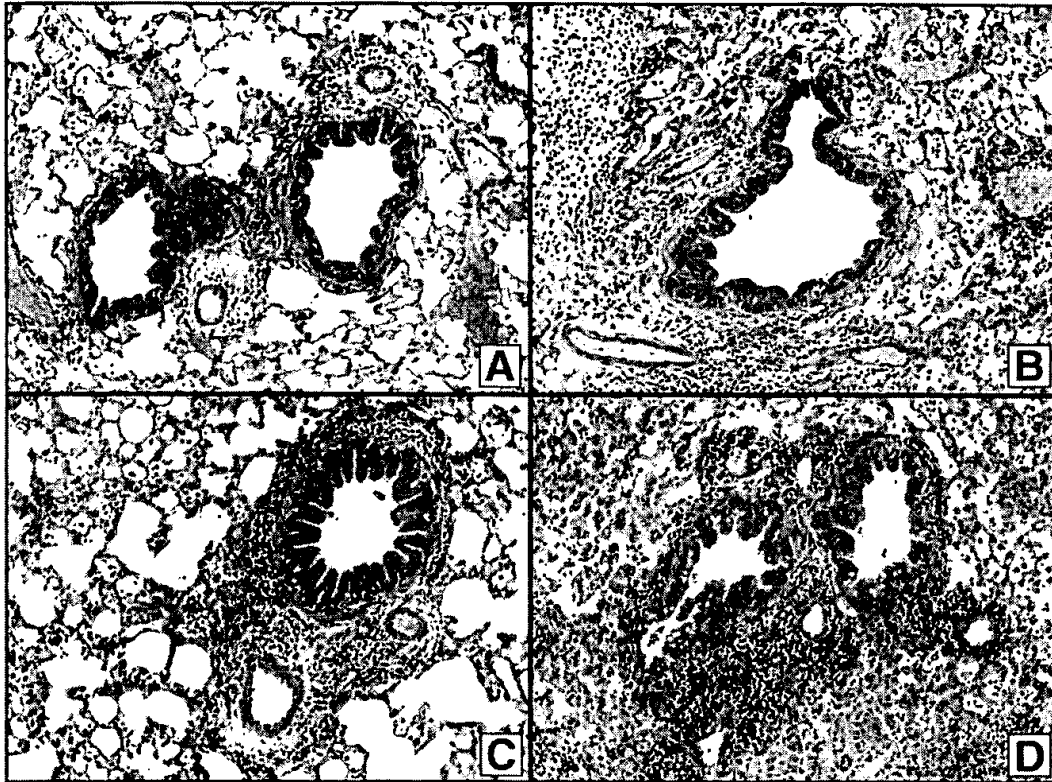


Fig. 5

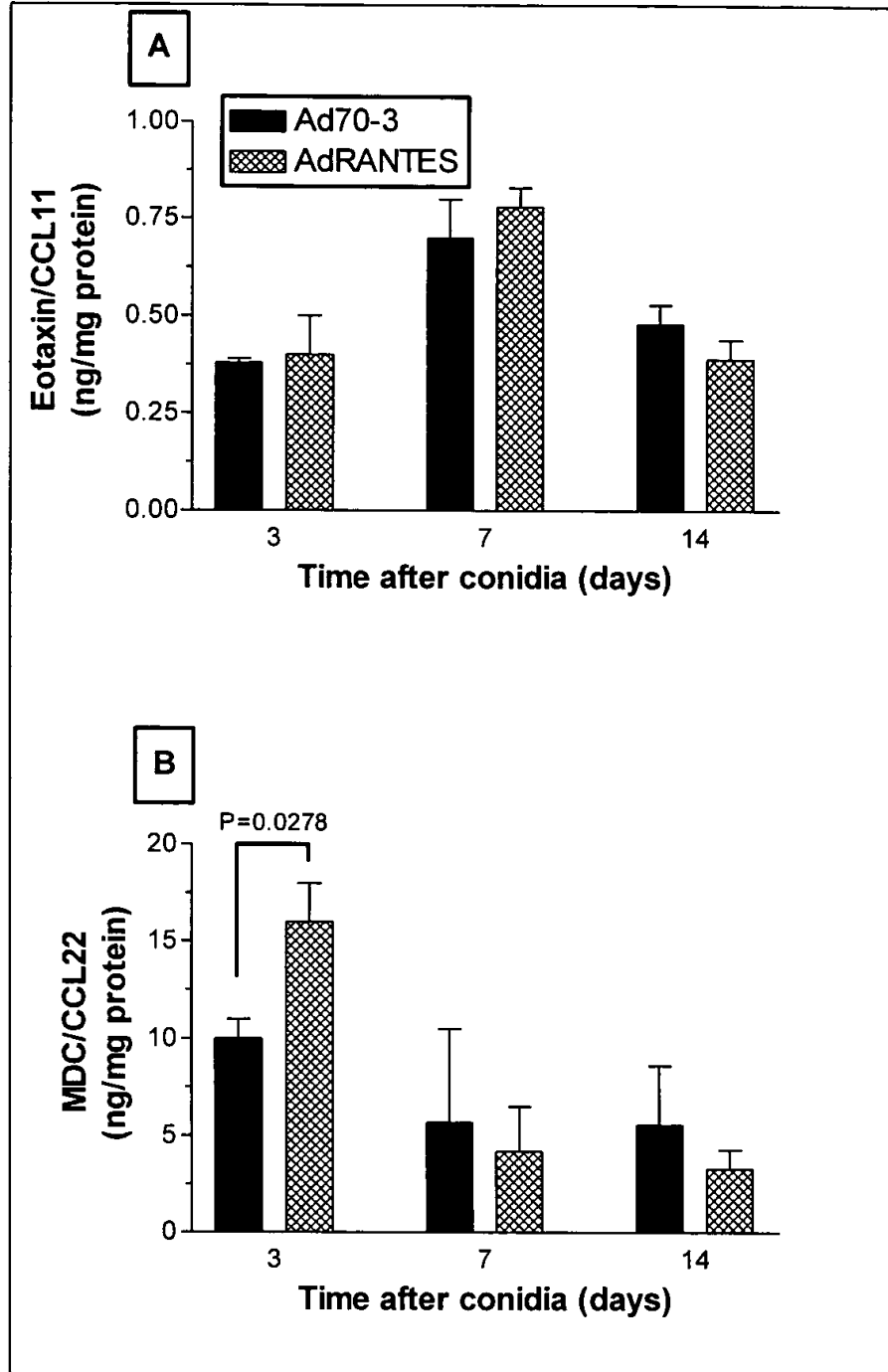
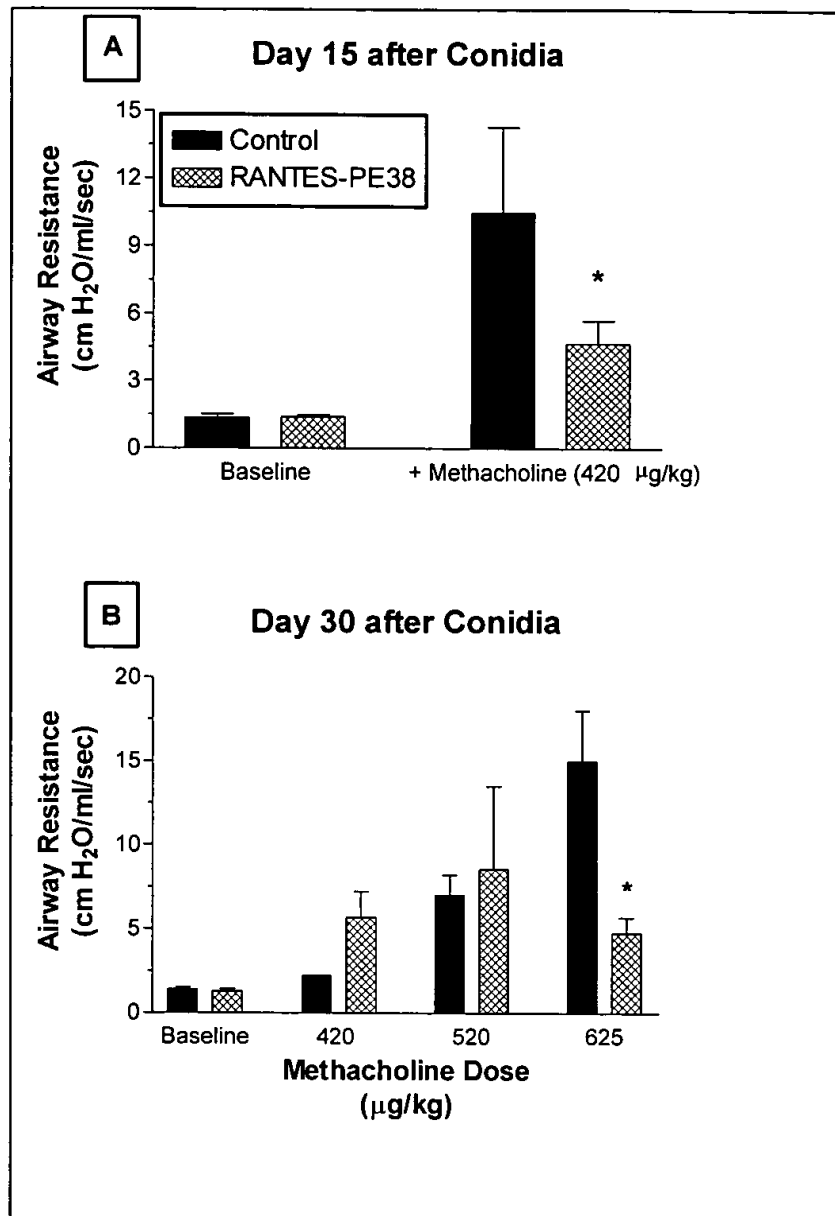


Figure 6



**Figure 7**

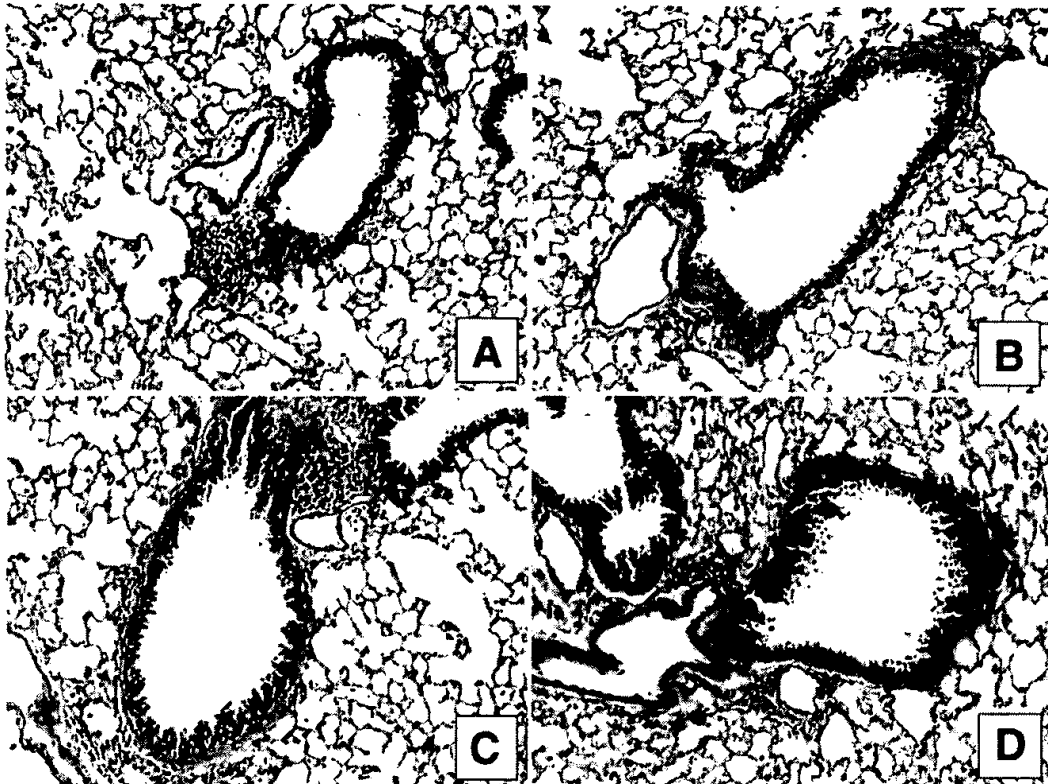
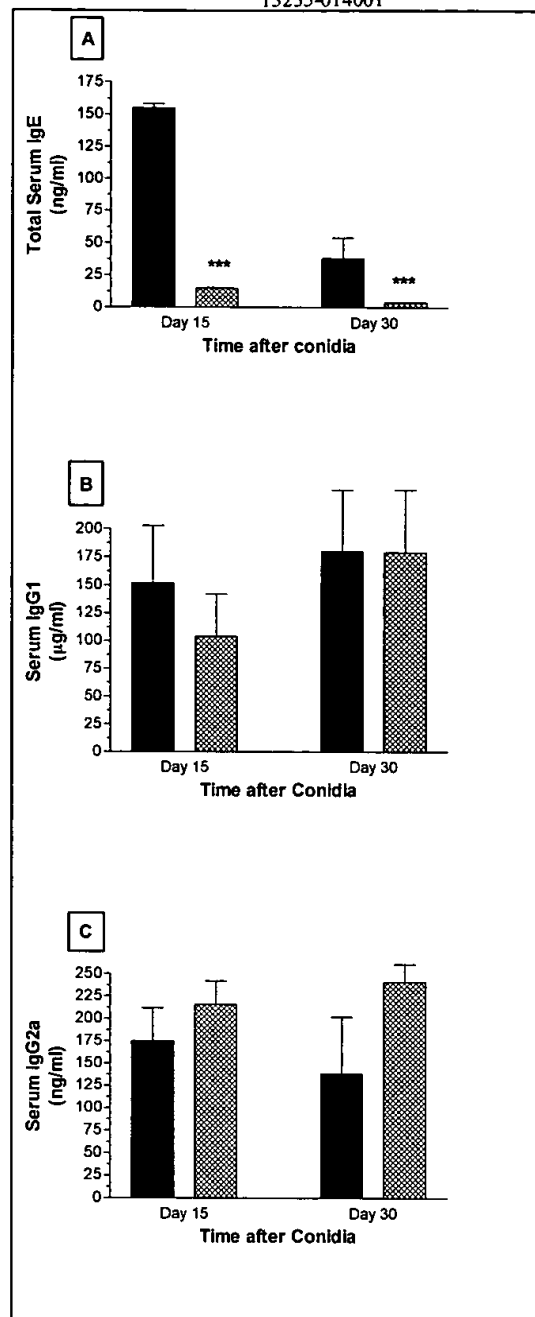
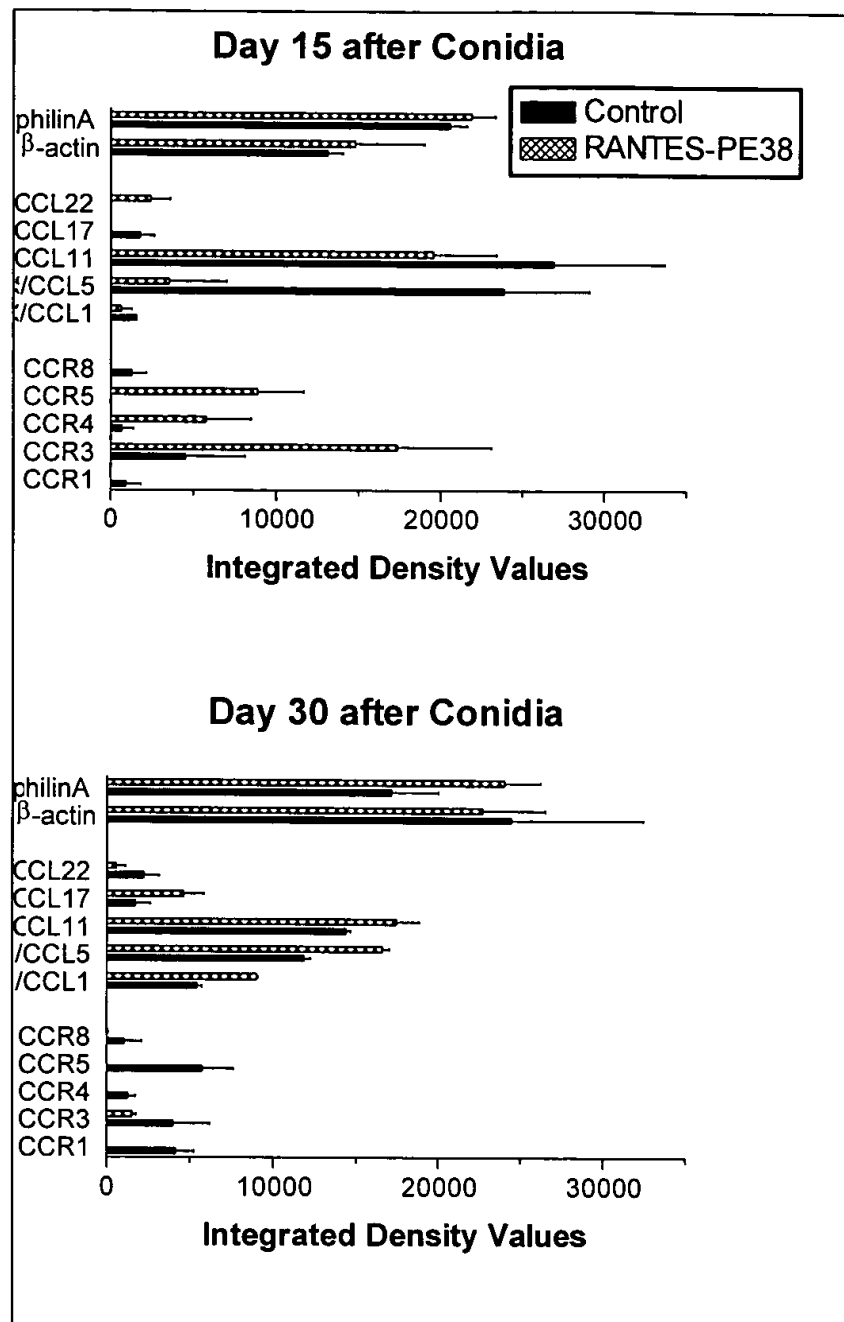


Fig. 8

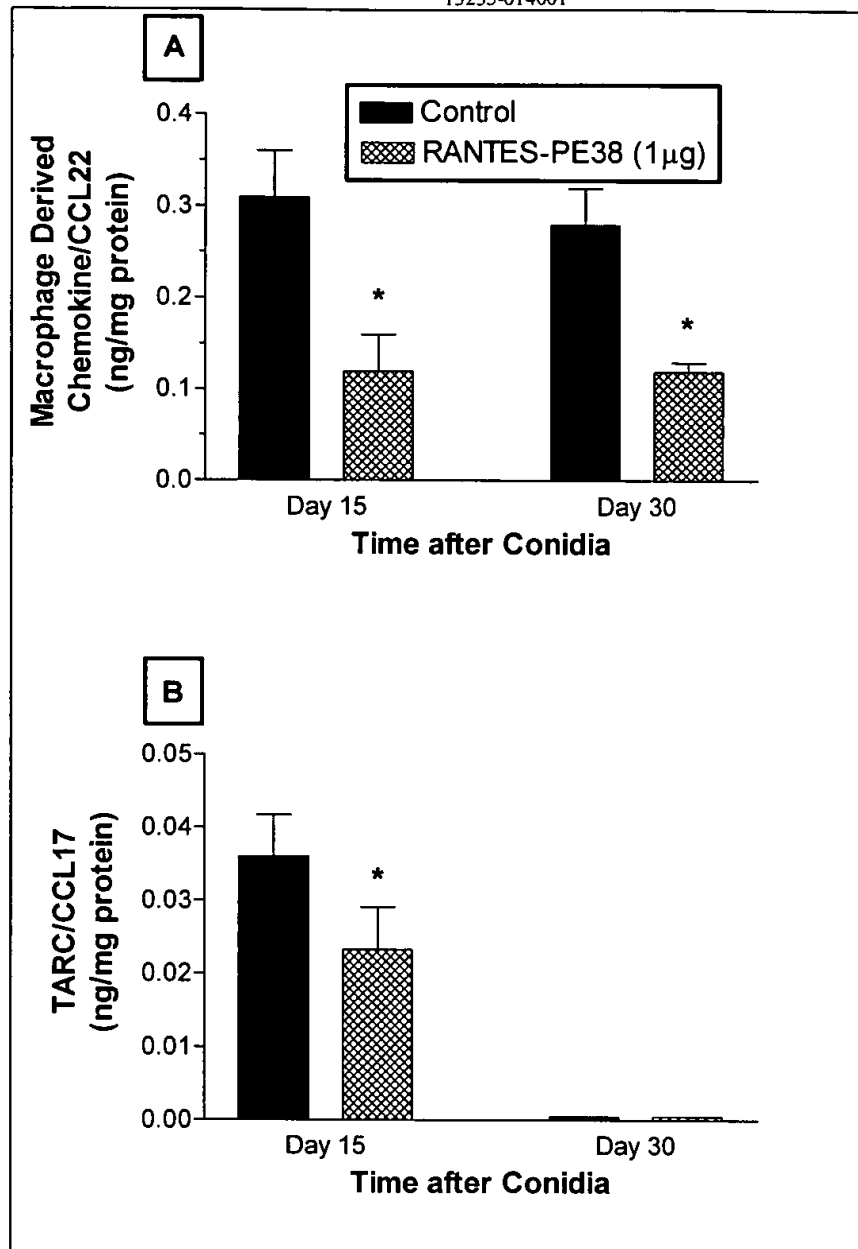




**Figure 9**



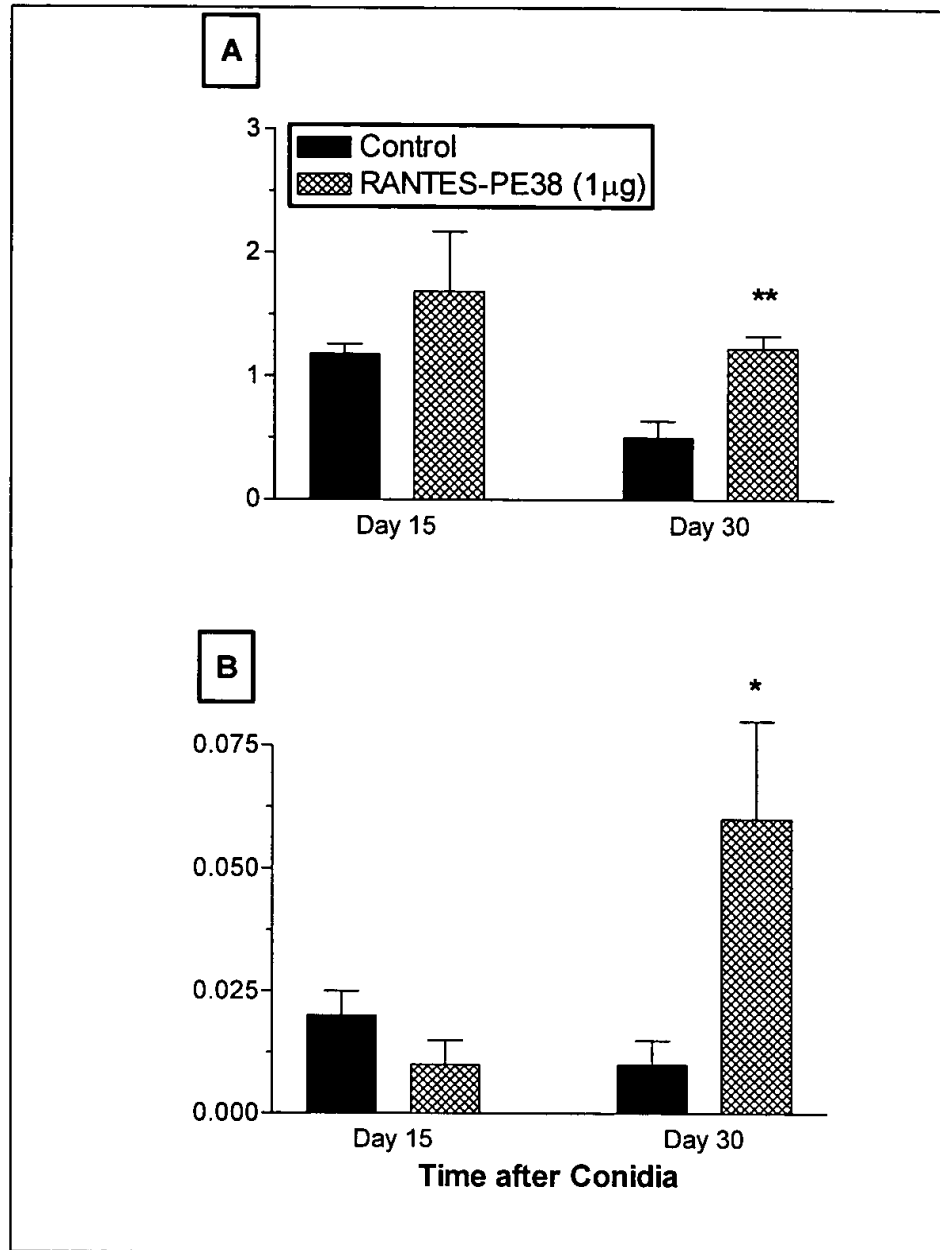
**Figure 10**



**Figure 11**



Fig. 12



**Figure 13**

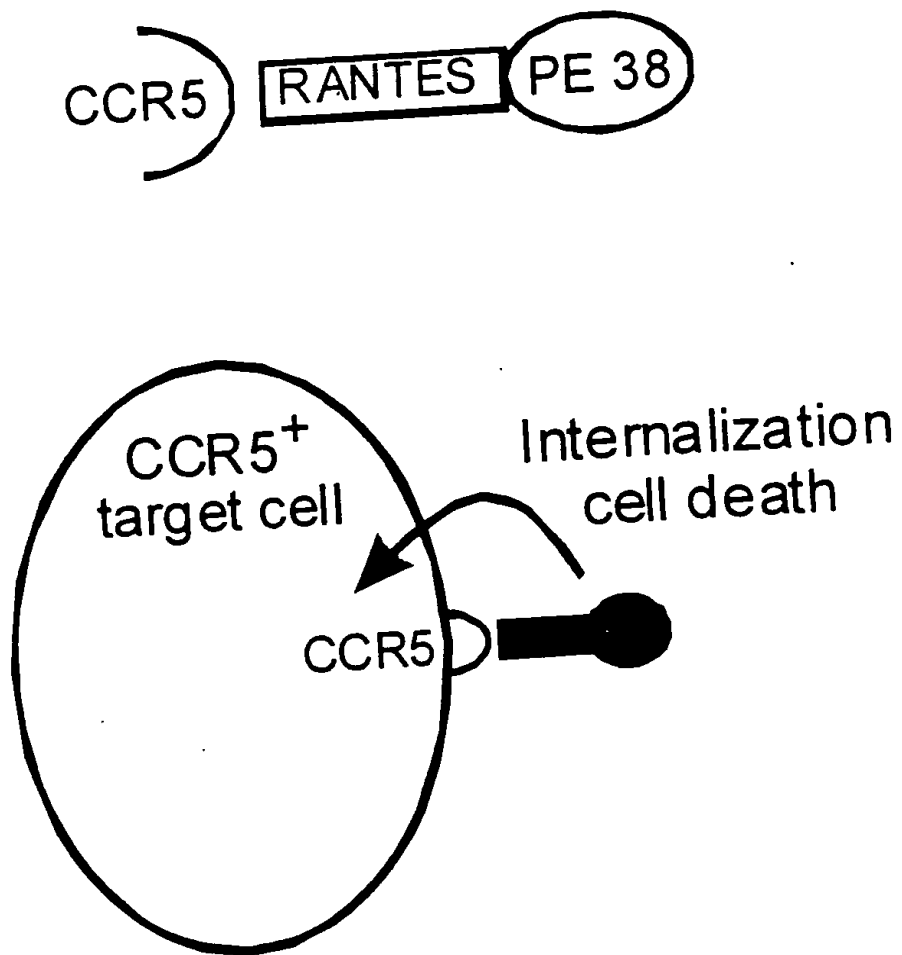


Fig. 14

**FIG. 15A**

tcc	cca	tat	tcc	tcg	gac	acc	aca	ccc	tgc	tgc	ttt	gcc	tac	att	gcc	48
Ser	Pro	Tyr	Ser	Ser	Asp	Thr	Thr	Pro	Cys	Cys	Phe	Ala	Tyr	Ile	Ala	
1				5					10					15		
cgc	cca	ctg	ccc	cgt	gcc	cac	atc	aag	gag	tat	ttc	tac	acc	agt	ggc	96
Arg	Pro	Leu	Pro	Arg	Ala	His	Ile	Lys	Glu	Tyr	Phe	Tyr	Thr	Ser	Gly	
			20					25					30			
aag	tgc	tcc	aac	cca	gca	gtc	gtc	ttt	gtc	acc	cga	aag	aac	cgc	caa	144
Lys	Cys	Ser	Asn	Pro	Ala	Val	Val	Phe	Val	Thr	Arg	Lys	Asn	Arg	Gln	
		35					40					45				
gtg	tgt	gcc	aac	cca	gag	aag	aaa	tgg	gtt	cgg	gag	tac	atc	aac	tct	192
Val	Cys	Ala	Asn	Pro	Glu	Lys	Lys	Trp	Val	Arg	Glu	Tyr	Ile	Asn	Ser	
	50					55					60					
ttg	gag	atg	tcc	gga	ggc	ggc	agc	ctg	gcc	gcg	ctg	acc	gcg	cac	cag	240
Leu	Glu	Met	Ser	Gly	Gly	Gly	Ser	Leu	Ala	Ala	Leu	Thr	Ala	His	Gln	
65					70				75					80		
gct	tgc	cac	ctg	ccg	ctg	gag	act	ttc	acc	cgt	cat	cgc	cag	ccg	cgc	288
Ala	Cys	His	Leu	Pro	Leu	Glu	Thr	Phe	Thr	Arg	His	Arg	Gln	Pro	Arg	
				85					90					95		
ggc	tgg	gaa	caa	ctg	gag	cag	tgc	ggc	tat	ccg	gtg	cag	cgg	ctg	gtc	336
Gly	Trp	Glu	Gln	Leu	Glu	Gln	Cys	Gly	Tyr	Pro	Val	Gln	Arg	Leu	Val	
			100					105					110			
gcc	ctc	tac	ctg	gcg	gcg	cgg	ctg	tcg	tgg	aac	cag	gtc	gac	cag	gtg	384
Ala	Leu	Tyr	Leu	Ala	Ala	Arg	Leu	Ser	Trp	Asn	Gln	Val	Asp	Gln	Val	
		115					120					125				
atc	cgc	aac	gcc	ctg	gcc	agc	ccc	ggc	agc	ggc	ggc	gac	ctg	ggc	gaa	432
Ile	Arg	Asn	Ala	Leu	Ala	Ser	Pro	Gly	Ser	Gly	Gly	Asp	Leu	Gly	Glu	
	130					135					140					
gcg	atc	cgc	gag	cag	ccg	gag	cag	gcc	cgt	ctg	gcc	ctg	acc	ctg	gcc	480
Ala	Ile	Arg	Glu	Gln	Pro	Glu	Gln	Ala	Arg	Leu	Ala	Leu	Thr	Leu	Ala	
145					150				155					160		
gcc	gcc	gag	agc	gag	cgc	ttc	gtc	cgg	cag	ggc	acc	ggc	aac	gac	gag	528
Ala	Ala	Glu	Ser	Glu	Arg	Phe	Val	Arg	Gln	Gly	Thr	Gly	Asn	Asp	Glu	
				165				170					175			
gcc	ggc	gcg	gcc	aac	ggc	ccg	gcg	gac	agc	ggc	gac	gcc	ctg	ctg	gag	576
Ala	Gly	Ala	Ala	Asn	Gly	Pro	Ala	Asp	Ser	Gly	Asp	Ala	Leu	Leu	Glu	
			180					185					190			

**FIG. 15B**

cgc aac tat ccc act ggc gcg gag ttc ctc ggc gac ggc ggc gac gtc	624
Arg Asn Tyr Pro Thr Gly Ala Glu Phe Leu Gly Asp Gly Gly Asp Val	
195 200 205	
agc ttc agc acc cgc ggc acg cag aac tgg acg gtg gag cgg ctg ctc	672
Ser Phe Ser Thr Arg Gly Thr Gln Asn Trp Thr Val Glu Arg Leu Leu	
210 215 220	
cag gcg cac cgc caa ctg gag gag cgc ggc tat gtg ttc gtc ggc tac	720
Gln Ala His Arg Gln Leu Glu Glu Arg Gly Tyr Val Phe Val Gly Tyr	
225 230 235 240	
cac ggc acc ttc ctc gaa gcg gcg caa agc atc gtc ttc ggc ggg gtg	768
His Gly Thr Phe Leu Glu Ala Ala Gln Ser Ile Val Phe Gly Gly Val	
245 250 255	
cgc gcg cgc agc cag gac ctc gac gcg atc tgg cgc ggt ttc tat atc	816
Arg Ala Arg Ser Gln Asp Leu Asp Ala Ile Trp Arg Gly Phe Tyr Ile	
260 265 270	
gcc ggc gat ccg gcg ctg gcc tac ggc tac gcc cag gac cag gaa ccc	864
Ala Gly Asp Pro Ala Leu Ala Tyr Gly Tyr Ala Gln Asp Gln Glu Pro	
275 280 285	
gac gca cgc ggc cgg atc cgc aac ggt gcc ctg ctg cgg gtc tat gtg	912
Asp Ala Arg Gly Arg Ile Arg Asn Gly Ala Leu Leu Arg Val Tyr Val	
290 295 300	
ccg cgc tcg agc ctg ccg ggc ttc tac cgc acc agc ctg acc ctg gcc	960
Pro Arg Ser Ser Leu Pro Gly Phe Tyr Arg Thr Ser Leu Thr Leu Ala	
305 310 315 320	
gcg ccg gag gcg gcg ggc gag gtc gaa cgg ctg atc ggc cat ccg ctg	1008
Ala Pro Glu Ala Ala Gly Glu Val Glu Arg Leu Ile Gly His Pro Leu	
325 330 335	
ccg ctg cgc ctg gac gcc atc acc ggc ccc gag gag gaa ggc ggg cgc	1056
Pro Leu Arg Leu Asp Ala Ile Thr Gly Pro Glu Glu Glu Gly Gly Arg	
340 345 350	
ctg gag acc att ctc ggc tgg ccg ctg gcc gag cgc acc gtg gtg att	1104
Leu Glu Thr Ile Leu Gly Trp Pro Leu Ala Glu Arg Thr Val Val Ile	
355 360 365	
ccc tcg gcg atc ccc acc gac ccg cgc aac gtc ggc ggc gac ctc gac	1152
Pro Ser Ala Ile Pro Thr Asp Pro Arg Asn Val Gly Gly Asp Leu Asp	
370 375 380	



**FIG. 15C**

ccg	tcc	agc	atc	ccc	gac	aag	gaa	cag	gcg	atc	agc	gcc	ctg	ccg	gac	1200
Pro	Ser	Ser	Ile	Pro	Asp	Lys	Glu	Gln	Ala	Ile	Ser	Ala	Leu	Pro	Asp	
385					390					395					400	
tac	gcc	agc	cag	ccc	ggc	aaa	ccg	ccg	cgc	gag	gac	ctg	aag	taa		1245
Tyr	Ala	Ser	Gln	Pro	Gly	Lys	Pro	Pro	Arg	Glu	Asp	Leu	Lys			

FIG. 16

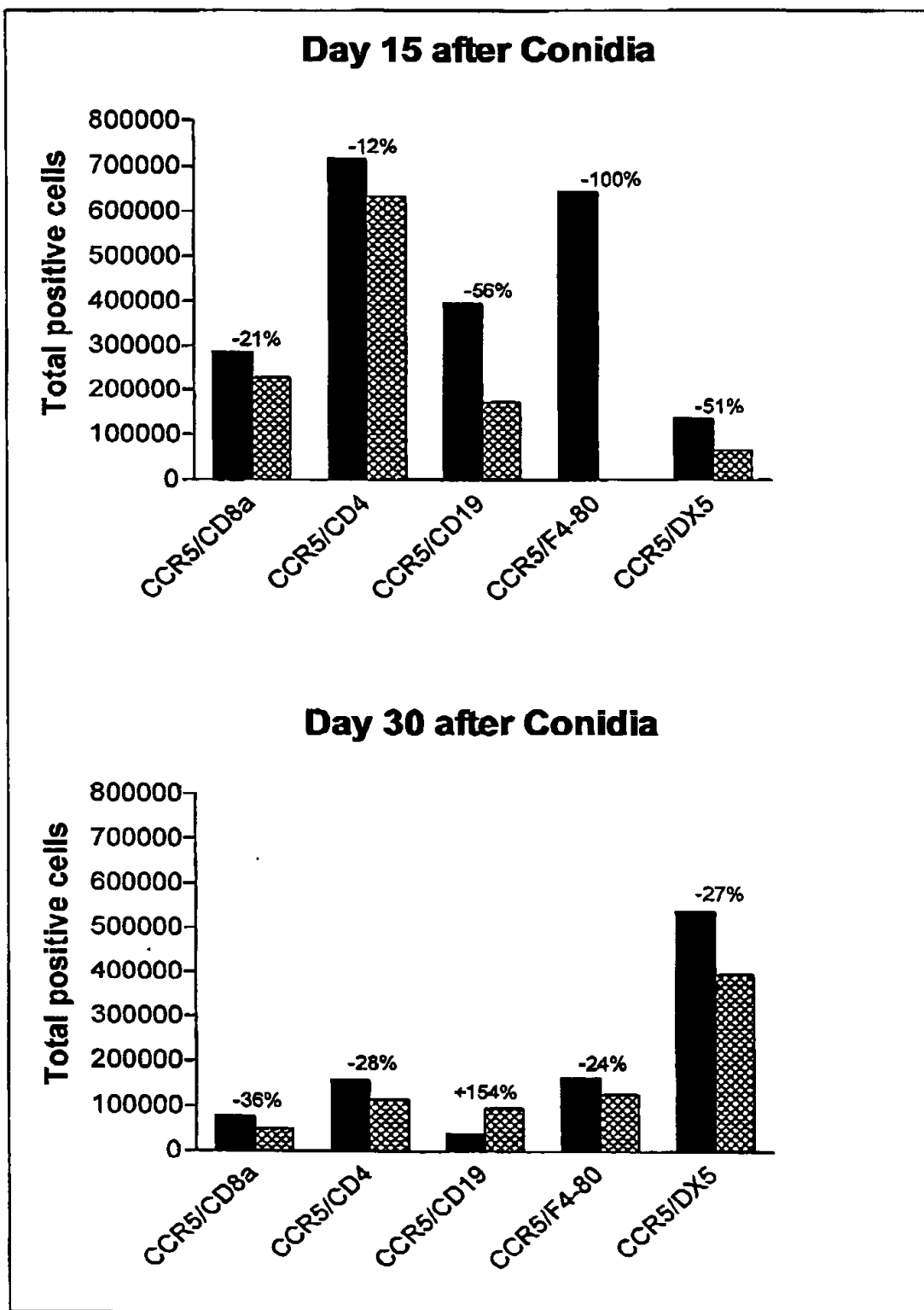


FIGURE 17

